



SEQUENCE LISTING

<110> Tyagi, Kumar
Mukhopadhyay, Arnab
Vij, Shubha

<120> A novel gene Osisapi of rice confers tolerance to stresses and a method thereof

<130> 4544-051956

<140> US 10/540,956

<141> 2006-03-13

<150> PCT/IN2003/000397

<151> 2003-12-23

<160> 3

<170> Microsoft Word 2003

<210> 1

<211> 844

<212> DNA

<213> Oryza sativa

<220>

<400> 1

gatctctcct gcaatcctca tcacacagca aacccaaacc gcgagcggaa tcctcagcct	60
gctgagagag cctgagacca agaggggggat tcttttttgg ttattgacga tggcgagcag	120
cgacaagaag gatcaggagc cgacggagct cagggcgccg gagatcacgc tgtgagccaa	180
cagctgagga ttcccgaggc acccgccac gcagaacctc tgccagaact gcttcttggc	240
ggccacggcg tccacctcgt cgccgtcttc tttgtcgtca ccggtgctcg acaagcagcc	300
gccgaggccg gcggcgccgc tgggtgagcc tcaggctcct ctcccaccgc ctgtggagga	360
gatggcctcc gcgctcgca cggcgccggc gccggtcgcc aagacgtcgg cgggtgaaccg	420
gtgctccagg tgccggaagc gtgtcggcct caccgggttc cggtgccggt gcggccacct	480
gttctgcggc gaacaccggt actccgaccg ccacggctgc agctacgact acaagtcggc	540
ggcaagggac gccatcgcca gggacaaccc ggtggtgagc gcggccaaga tcgttagggt	600
ctgagaggca aacaaaatta aaaaaaaaaat ctactgtttt agcaagaaat ggagaaaaaa	660
attgggaatt gaagggtgg atgttattat tatgctgttc tcttctcgca attgtttttc	720
cctttttatt ctttttaatt gcaaaccgga ggataagtgg tggaaaagga atagtgtaac	780
aataatggtg atgtgaggtg gttgagggaa aaagaatcga agaacaaaaa aaaaaaaaaa	840

aaaa

844

<210> 2

<211> 164

<212> PRT

<213> Oryza sativa

<220>

<400> 2

Met Ala Gln Arg Asp Lys Lys Asp Gln Glu Pro Thr Glu Leu Arg Ala
1 5 10 15

Pro Glu Ile Thr Leu Cys Ala Asn Ser Cys Gly Phe Pro Gly Asn Pro
20 25 30

Ala Thr Gln Asn Leu Cys Gln Asn Cys Phe Leu Ala Ala Thr Ala Ser
35 40 45

Thr Ser Ser Pro Ser Ser Leu Ser Ser Pro Val Leu Asp Lys Gln Pro
50 55 60

Pro Arg Pro Ala Ala Pro Leu Val Glu Pro Gln Ala Pro Leu Pro Pro
65 70 75 80

Pro Val Glu Glu Met Ala Ser Ala Leu Ala Thr Ala Pro Ala Pro Val
85 90 95

Ala Lys Thr Ser Ala Val Asn Arg Cys Ser Arg Cys Arg Lys Arg Val
100 105 110

Gly Leu Thr Gly Phe Arg Cys Arg Cys Gly His Leu Phe Cys Gly Glu
115 120 125

His Arg Tyr Ser Asp Arg His Gly Cys Ser Tyr Asp Tyr Asn Ser Ala
130 135 140

Ala Arg Asp Ala Ile Ala Arg Asp Asn Pro Val Val Arg Ala Ala Lys
145 150 155 160

Ile Val Arg Phe

<210> 3

<211> 38

<212> PRT

<213> Oryza sativa

<220>

<221> CDS

<222> (2)..(5)

<223> xaa can be any amino acid and some may be missing

<222> (7)..(18)

<223> xaa can be any amino acid and some may be missing

<222> (20)..(21)

<223> xaa can be any amino acid and some may be missing

<222> (23)..(26)

<223> xaa can be any amino acid and some may be missing

<222> (28)..(29)

<223> xaa can be any amino acid and some may be missing

<222> (31)..(35)

<223> xaa can be any amino acid and some may be missing

<222> (37)

<223> xaa can be any amino acid

<400> 3

cys xaa xaa xaa xaa cys xaa xaa xaa xaa xaa xaa xaa xaa xaa xaa
5 10 15

xaa xaa cys xaa xaa cys xaa xaa xaa xaa cys xaa xaa his xaa xaa
20 25 30

xaa xaa xaa his xaa cys
35